8. External sufficient standard citation	
9. Is the level of risk associated with the issue(s) consistent with	YES NO
management performance goals assuming compliance with the above (non-statutory) external standard?	thomuing okin to 10
ii no continue, o	therwise skip to 12
10. Is an internal standard required to attain a level of risk consistent with	
management performance goals?	YES NO
11. Describe nature and status of internal sufficient standard.	
	<u></u> -
12. Describe how the levels of risk and cost are consistent with management pe	
Past adherance to the statutory requirements in #3 has resulted in levels of ES&H and cost performation with management goals inlouding the use of industrial standards for industrial issues.	ance that are consistent
	. •
· · · · · · · · · · · · · · · · · · ·	
13. Pick the basic implementing assumption from the list. Major positive impact	Minor negative impact
☐ Minor positive impact ☐ ☑ No net impact	Major negative impact
No net impact	
14. Describe the nature and status of implementation including cost-effectivene	ess.
Lead exposures can occur in association with physics or maintenance activities. They are handled in	n accordance with good
industrial hygiene practices including activity review, training, and monitoring. ES&H Manual Chapter 5052.3 (Lead in paints) and 5063 (Confined spaces) help to control exposures. Experience has dem	
program is both successful and cost-effective.	
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			lesue	origin	Hazard analysis    □	dentification Toom
1.	lssue(s)		10000	origin.	A Hazard analysis	dentification ream
	. Chem - pesticio					
055	. Env - pesticide	application and use				
1						
	· **					
						j
	Focus group	☐ Emergency Management	☐ Fire Protection		☑ Occupational Safet	
	g.oup		☐ Management &	Oversial	ht Radiation Protection	y 1
2.	is there a ne	cessary standard which	applies to this is	ssue?	•	X YES INO
		•			yes, continue; other	
				"	yes, continue, other	wise skip to 6.
3.	Necessary s	tandard(s)				
FIFF	RA (7 USC 136 et	seq.)				
	FR Subchapter I					
		IRS Ch. 5, para. 801 et seq.;				
		Act, IRS Ch. 111 1/2, para. 22	201 - 2225			
	FR 1910.1200 FR 1910.1000					
	AC 302.302					
	AC 602.110					
	AC 652					
77 I	AC 830		•			
						·
				<del></del>		
4.	Are there any	aspects of these neces	ssary standard(s)	which	do not add value?	YES NO
				ŀ	f yes, continue; othe	
5.	Description of	of non-value added aspe	ects of necessary	stand	lard(s).	
			·		·	
		of risk associated with t				YES NO
pert	ormance goal	s assuming compliance	with applicable		•	
					If no continue; other	wise skip to 12.
7.	Is there a no	n-required external stand	dard which applie	s to th	nis issue?	☐ YES ☐ NO
					yes, continue; otherv	

8. External sufficient standard citation	
9. Is the level of risk associated with the issue(s) consistent with	YES NO
management performance goals assuming compliance with the above (non-statutory) external standard?	
in no continue;	otherwise skip to 12.
10. Is an internal standard required to attain a level of risk consistent with	
management performance goals?	YES NO
11. Describe nature and status of internal sufficient standard.	
12. Describe how the levels of risk and cost are consistent with management	
Continuation of the current program will provide an appropriate level of protection at an acceptable consistent with management performance goals because management expects to use industrial so	
issues. This is an industrial issue and the solution chosen is an industrial solution.	
13. Pick the basic implementing assumption from the list.  Major positive impact	☐ Minor negative impact
☐ Minor positive impact	☐ Major negative impact
No net impact	
14. Describe the nature and status of implementation including cost-effective	ness.
Implementation of these laws and regulations is accomplished through contractual arrangements w	ith applicators and
lessors of agricultural land, and by procedures followed by Roads and Grounds personnel pursuant regulations.	to all applicable

4	leeue(e)		Issue	origin	☑ Hazard analysis	☐ Identification Team
1.	Issue(s)					
010	. Construction -	compressed gasses				
						ĺ
i	Focus group	☐ Emergency Management	Fire Protection	_	☑ Occupational S	afety
		☐ Environmental Protection	n ☐ Management &	Oversigi	nt Radiation Prote	ction
2.	is there a ne	ecessary standard which	applies to this is	sue?		▼YES □ NO  INO  INO  INO  INO  INO  INO  INO
				lf	yes, continue; ot	herwise skip to 6.
_						
3.	Necessary s					
29 C	FR 1926.350-35	2				
1						
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						İ
						ì
4.	Are there any	y aspects of these nece	ssary standard(s)	which	do not add value?	YES NO
	_	•				therwise skip to 6.
	•				,	•
5.	Description of	of non-value added aspe	ects of necessary	stand	ard(s).	
<u> </u>		-				
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					7-70	
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		of risk associated with t Is assuming compliance				X YES INO
hau	ormanice goal	assummy computance	with applicable			
					it no continue; oti	herwise skip to 12.
				•		
7.	is there a no	n-required external stand	dard which applies	s to th	is issue?	☐ YES ☐ NO
				lf	yes, continue; oth	erwise skip to 10.

8. External sufficient standard citation		
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		•
9. Is the level of risk associated with the issue(s) consi	stent with	
management performance goals assuming compliance with		☐ YES ☐ NO
(non-statutory) external standard?	lf no continue; oth	erwise skip to 12
10. Is an internal standard required to attain a level of r	isk consistent with	YES NO
management performance goals?		LI 120 LINO
11. Describe nature and status of internal sufficient sta	ndard.	
	•	
12. Describe how the levels of risk and cost are consist		
Past adherance to the statutory requirements in #3 has resulted in leve with management goals inlouding the use of industrial standards for ind		ce that are consistent
13. Pick the basic implementing assumption from the list	. ☐ Major positive impact ☐ I	Minor negative impact
•	☐ Minor positive impact ☐ I	Major negative impact
	No net impact	
14. Describe the nature and status of implementation in	ncluding cost-effectivenes	e
Experience has demonstrated that this program is both successful and		<u> </u>

_		Issue origin 🔀 Hazard analysis 🔲 Identification Tea	am ]
1.	Issue(s)		
019	9. Construction -	- demolition	
			ł
l	e - '		
			j
	Focus group	☐ Emergency Management ☐ Fire Protection  ☑ Occupational Safety	=
	. como g.omp	☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection	
2.	is there a n	necessary standard which applies to this issue?	
~-	io there u n		
		If yes, continue; otherwise skip to	6.
3.	Necessary	standard(s)	
		station u(s)	
	CFR 1926.850 CFR 1926.58 (as	eshectos)	- [
23	OI H 1920.50 (A	suestos)	
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4.	Are there an	ny aspects of these necessary standard(s) which do not add value?	O
		If yes, continue; otherwise skip to	6.
5.	Description	of non-value added aspects of necessary standard(s).	
			$\neg$
L			
6.		of risk associated with the issue(s) consistent with management	
per	formance goa	als assuming compliance with applicable necessary standards?	
		If no continue; otherwise skip to	12.
7.	le there a no	on-required external standard which applies to this issue?	_
	is there a lit		_
		If yes, continue; otherwise skip to	10.

8. External sufficient standard citation		
•		
9. Is the level of risk associated with the issue(s) consi	stant with	
management performance goals assuming compliance wit		YES NO
(non-statutory) external standard?	If no continue; other	erwise skip to 12.
10. Is an internal standard required to attain a level of	risk consistent with	YES NO
management performance goals?		D 120 Dito
11. Describe nature and status of internal sufficient sta	indard.	
12. Describe how the levels of risk and cost are consist	ent with management perfo	rmance goals.
Past adherance to the statutory requirements in #3 has resulted in leve with management goals inlouding the use of industrial standards for inc	ols of ES&H and cost performance dustrial issues.	that are consistent
13. Pick the basic implementing assumption from the list	. ☐ Major positive impact ☐ Mi	nor negative impact
	☐ Minor positive impact ☐ Ma	ajor negative impact
	No net impact	
14. Describe the nature and status of implementation is	ncludina cost-effectiveness	
Experience has demonstrated that this program is both successful and		
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	w.	1

If yes, continue; otherwise skip to 10.

	leeve/s)					Issue	origin	<b>⊠</b> Ha	azard analys	sis 🔲 lo	dentificatio	n Team
1.	Issue(s) Construction -	dawatarin	hozord		. ,					_		
020	Construction -	uewaterini	Jilazalu									
												j
												1
	e.											
٠.												
					FI F: D-	-11		-	0	10 (1		
	Focus group		jency Manag nmental Pro				Oversial	bt □	Occupation P	ai Safety rotection	<b>/</b>	
				710011011	manag	omont a	Overeign		riadiation i	TOLCOLIO		
2.	is there a ne	ecessarv	standard v	which a	polies to	this is	ssue?				N VEC	
		,ccccu, y	oidinadia ,		ppiioo io				continue;	othor	YES YES	
							•••	yes,	continue;	other	wise skip	10 6.
3.	Necessary s	tandard(	s)									
29 (	OFR 1926, 651(h)											
	, ,											
												1
												ļ
			r									
4.	Are there any	y aspects	of these	necess	ary stan	dard(s)						<b>⊠</b> NO
							I:	f yes	, continue	; other	wise ski	p to 6.
5.	Description of	of non-va	alue addec	aspec	ts of ne	cessary	y stand	lard(s	).			
												ŀ
	·										·	
6.	is the level of	of risk a	ssociated	with the	e issue(s	) consi	istent w	vith <sub>,</sub> n	nanagemer	nt	▼ YES	
per	formance goal	is assum	ing comp	liance v	with app	licable		-				
								if no	continue;	otherv	vise skip	to 12.
		•										
7.	Is there a no	n-require	d external	standa	rd which	applie	s to th	nis is:	sue?		YES	□ NO

8. External sufficient standard citation	
. Is the level of risk associated with the issue(s) consistent with	☐ YES ☐ NC
nanagement performance goals assuming compliance with the above	<u> </u>
non-statutory) external standard?	nue; otherwise skip to 1
<ol><li>Is an internal standard required to attain a level of risk consistent with nanagement performance goals?</li></ol>	YES NO
Describe nature and status of internal sufficient standard.	
2. Describe how the levels of risk and cost are consistent with management	ent performance goals.
ast adherance to the statutory requirement in #3 has resulted in levels of ES&H and cost per ith management goals inlouding the use of industrial standards for industrial issues.	rformance that are consistent
in management godes intodering the use of industrial standards for industrial issues.	
	·
3. Pick the basic implementing assumption from the list. Major positive imp	pact  Minor negative impa
☐ Minor positive imp  Mo net impact	pact
	· · · · · · · · · · · · · · · · · · ·
I. Describe the nature and status of implementation including cost-effect	tiveness.
perience has demonstrated that this program is both successful and cost-effective.	

If yes, continue; otherwise skip to 10.

			Issue	origin [	M Hazard analysis	☐ Identification Team
1.	Issue(s)			<u>-</u>		
021	Construction -	earth cave-in and collapse				
	Focus group	☐ Emergency Management			Occupational S	
		☐ Environmental Protection	Management &	Oversight	☐ Hadiation Prote	ection
_	(- N			_		
2.	is there a no	ecessary standard which	applies to this is	sue?		YES NO
				lf y	yes, continue; o	therwise skip to 6.
•	Necessary s	standard(a)				
3.			· · · · · · · · · · · · · · · · · · ·		· · · <u>-</u>	<del></del>
29 (	CFR 1926.651-65	, <b>∠</b>				
						. •
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ı						
4.	Are there an	y aspects of these nece	ceans standard(a)	which d	a not add value	9 TVEC 19110
₹.	Are there an	, aspects of these neces	ssary standard(s)			YES NO NO Stherwise skip to 6
				••	yoo, oominac, c	Michige Skip to 0
5.	Description	of non-value added aspe	ects of necessary	standa	rd(s).	
6.	le the level	of risk associated with t	ha issue/s) some	stant well	h managamaga	
		of risk associated with t Is assuming compliance				YES NO
			alabarana a		-	therwise skip to 12
				•		
7	le thora a	n-required external etc-	doud subjet	n to 167-	lague?	
	is uitle a IIC	n-required external stand	and winch applies	s to this	s issue!	☐ YES ☐ NO

8. External sufficient standard citation		
·		
9. Is the level of risk associated with the issue(s) cons		☐ YES ☐ NO
management performance goals assuming compliance will (non-statutory) external standard?		
(iiiii ciaiaici,,, caiciiai ciaiaaici	if no continue; of	therwise skip to 12
10. Is an internal standard required to attain a level of management performance goals?	risk consistent with	YES NO
management performance goals:		
11. Describe nature and status of internal sufficient sta	ındard.	<u> </u>
		•
·		
12. Describe how the levels of risk and cost are consis	lant with management was	
12. Describe how the levels of risk and cost are consist Past adherance to the statutory requirements in #3 has resulted in levels.	els of FS&H and cost performa	nce that are consistent
with management goals inlcuding the use of industrial standards for inc		nee that are concident
	•	
13. Pick the basic implementing assumption from the lis	☐ Major positive impact ☐	Minor positive imposi
13. Fick the basic implementing assumption from the ils	☐ Minor positive impact ☐	Major negative impact
	■ No net impact	
14. Describe the nature and status of implementation i		ss
Experience has demonstrated that this program is both successful an	d cost-effective.	
		1

1.	Issue(s)		Issue	origin	🛮 Hazard analysis 🔲 lo	dentification Team
022		arth moving equipment				
		- , ,				
						·
						ĺ
ı	Focus group	☐ Emergency Management ☐ Fir			☑ Occupational Safety	1
	<u>[r</u>	☐ Environmental Protection ☐ Ma	anagement &	Oversigi	nt 🔲 Hadiation Protection	
2.	le there a nec	essary standard which applie	e to this i			Elves Elve
<b>4.</b>	is there a nec	essary standard winch applie	3 (U (IIIS ):			YES NO
				IT	yes, continue; other	wise skip to 6.
3.	Necessary sta	ındard(s)				
29 C	FR 1926.600-602			-		
						İ
						ĺ
						ľ
4.	Are there any	aspects of these necessary	standard(s)	which	do not add value?	YES NO
				li.	f yes, continue; other	wise skip to 6.
_			_			
5.	Description of	non-value added aspects of	necessary	/ stand	ard(s).	
					•	
6.	is the level of	risk associated with the iss	ue(s) consi	stent w	rith management	
		assuming compliance with				YES NO
					If no continue; otherw	vise skip to 12.
7.	ls there a non-	required external standard w	hich applie	s to th	is issue?	YES NO
				lf	yes, continue; otherw	ise skip to 10.

8. External sufficient standard citation	
•	
9. Is the level of risk associated with the issue(s) consistent with	☐YES ☐ NO
management performance goals assuming compliance with the above	□ 1E3 □ 1/10
(non-statutory) external standard?	ue; otherwise skip to 12
10. Is an internal standard required to attain a level of risk consistent with	☐ YES ☐ NO
management performance goals?	
11. Describe nature and status of internal sufficient standard.	
12. Describe how the levels of risk and cost are consistent with manageme Past adherance to the statutory requirements in #3 has resulted in levels of ES&H and cost pe	
with management goals inlouding the use of industrial standards for industrial issues.	mormanice that are consistent
13. Pick the basic implementing assumption from the list. Major positive impa	act Minor negative impact
☑ No net impact	act
14. Describe the nature and status of implementation including cost-effect	tiveness.
Experience has demonstrated that this program is both successful and cost-effective.	

		Issue origin ☑ Hazard analysis 🔲	dentification Team
1.	Issue(s)		
024	. Construction - e	earth clearing	
	- Area		
L			
	Focus group	☐ Emergency Management ☐ Fire Protection ☐ Cocupational Safet ☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection	
		Livitorine nat Protection   Management & Oversight   Hadiation Protection	<u>n</u>
2.	le there a ne	cessary standard which applies to this issue?	ELVEO ELVO
۷.	is there a ne		YES NO
		If yes, continue; other	wise skip to 6.
3.	Necessary st	tandard(s)	
	CFR 1926.604		<del></del>
``	51111020.00-1		[
	·		
4.	Are there any	aspects of these necessary standard(s) which do not add value?	☐ YES 🗷 NO
••		If yes, continue; othe	
		, ,	
5.	Description o	of non-value added aspects of necessary standard(s).	
	<u> </u>		
			ł
6	le the level o	of risk associated with the issue(s) consistent with management	
o. peri	formance goals	s assuming compliance with applicable necessary standards?	YES NO
		If no continue; other	Wise skip to 12
		January office	omp to 12,
7.	le there a no-	n-required external standard which applies to this issue?	Elves Elia
•	is lifele a HUI	in-required external standard which applies to this issue?  If yes, continue; otherwards the continue is the c	YES NO
		n yes, continue, other	MAG SVIN (O IO'

8. External sufficient standard citation		
		•
3. Is the level of risk associated with the issue(s) consists		☐ YES ☐ NO
nanagement performance goals assuming compliance with non-statutory) external standard?		otherwise skip to 1
•	n no continue,	otherwise skip to i
10. Is an internal standard required to attain a level of ri	ek consistent with	
nanagement performance goals?	sk consistent with	☐ YES ☐ NO
1. Describe nature and status of internal sufficient state	ndard.	
	a.	
O Passelles have the levels of viels and each our sources.		
<ol> <li>Describe how the levels of risk and cost are consisted ast adherance to the statutory requirement in #3 has resulted in levels</li> </ol>		
rith management goals inlouding the use of industrial standards for industrial		and that are consistent
	•	
	· · · · · · · · · · · · · · · · · · ·	
3. Pick the basic implementing assumption from the list	☐ Major positive impact	Minor negative impac
	<ul><li>☐ Minor positive impact</li><li>☒ No net impact</li></ul>	Major negative impac
	No net impact	
4. Describe the nature and status of implementation in	cluding cost-effectiven	ess.
xperience has demonstrated that this program is both successful and		

1.	Issue(s)		Issue	origin	🛮 Hazard analysis 🔲	Identification Team
	. Construction -	fall hazards	· · ·			
<u> </u>	· · · · · · · · · · · · · · · · · · ·				•	
i	Focus group	☐ Emergency Management ☐ Fire Pro	otection			ty
		☐ Environmental Protection ☐ Manage	ement &	Oversign	nt ∐ Hadiation Protection	on
2.	le there a ne	cessary standard which applies to	thin is	,		
۷.	is lifete a life	cessary standard which applies to	11115 13			YES NO
				IT	yes, continue; other	rwise skip to 6.
3.	Necessary s	tandard(s)				
29 C	FR 1926.500-50				· · · · · · · · · · · · · · · · · · ·	
29 C	FR 1926.104					
						· ·
			,			
4.	Are there any	aspects of these necessary stand	dard(s)	which	do not add value?	YES NO
					f yes, continue; othe	
5.	Description of	of non-value added aspects of ne	cessary	stand	ard(s).	
		•				
6	is the level of	f risk associated with the issue(s	\ consi	etant ···	ith management	
		s assuming compliance with app				X YES NO
-	•	2 ,			If no continue; other	wise skip to 12.
						•
7.	ls there a no	n-required external standard which	applie	s to th	is issue?	YES NO
-		1			voc continue ether	

8. External sufficient standard citation	
9. Is the level of risk associated with the issue(s) consistent with	YES NO
management performance goals assuming compliance with the above (non-statutory) external standard?	
(non-statutory) external standard:	; otherwise skip to 1
10. Is an internal standard required to attain a level of risk consistent with	
management performance goals?	☐ YES ☐ NO
11. Describe nature and status of internal sufficient standard.	
12. Describe how the levels of risk and cost are consistent with management Past adherance to the statutory requirements in #3 has resulted in levels of ES&H and cost performents.	performance goals.
with management goals inlouding the use of industrial standards for industrial issues.	miance that are consisten
13. Pick the basic implementing assumption from the list. Major positive impact	<ul><li>Minor negative impac</li><li>Major negative impac</li></ul>
☑ No net impact	. 🔟 iviajoi negative impac
14. Describe the nature and status of implementation including cost-effective	eness.
Experience has demonstrated that this program is both successful and cost-effective.	•

		Issue origin 🛛 Hazard analysis 🗖 Id	entification Team
1.	Issue(s)		
02	7. Construction -	hand tools	-
			}
	5/4		j
L.,			
	Focus group	☐ Emergency Management ☐ Fire Protection            ☐ Occupational Safety	
		☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection	
2.	is there a ne	ecessary standard which applies to this issue?	YES NO
		If yes, continue; otherw	rise skip to 6.
			•
3.	Necessary s	standard(s)	
	CFR 1926.300-30	01	
	CFR 1926.303		
	CFR 1926.305 CFR 1910.242		
29	CFN 1910.242		1
-			
4.	Are there an	y aspects of these necessary standard(s) which do not add value?	TIVE BUO
٠.	Ale lileie ali	If yes, continue; other	YES NO
		ii yes, continue, other	wise skip to o.
5.	Description	of non-value added aspects of necessary standard(s).	
J.	Description	or non-value added aspects of necessary standard(s).	
			1
Ц	· · · · · · · · · · · · · · · · · · ·		
6.		of risk associated with the issue(s) consistent with management	N VEC PINO
pe	rformance goa	ils assuming compliance with applicable necessary standards?	YES NO
		If no continue; otherw	ise skip to 12.
		•	
7.	Is there a no	on-required external standard which applies to this issue?	YES NO
		If yes, continue; otherw	

8. External sufficient standard citation	
O le the level of risk appointed with the inque(a) appointed with	
9. Is the level of risk associated with the issue(s) consistent with management performance goals assuming compliance with the above	☐ YES ☐ NO
(new statutemy) systematic standards	e; otherwise skip to 12
	,
10. Is an internal standard required to attain a level of risk consistent with	TIVES TIMO
management performance goals?	YES NO
11. Describe nature and status of internal sufficient standard.	
·	
12. Describe how the levels of risk and cost are consistent with managemen	t performance goals.
Past adherance to the statutory requirements in #3 has resulted in levels of ES&H and cost perf	
with management goals inlouding the use of industrial standards for industrial issues.	
· · · · · · · · · · · · · · · · · · ·	
13. Pick the basic implementing assumption from the list. Major positive impac	t Minor negative impact
✓ No net impact	t
14. Describe the nature and status of implementation including cost-effecti	veness.
Experience has demonstrated that this program is both successful and cost-effective.	

1.	Issue(s)			issue d	origin	Hazard analysis	☐ Identification Team
028	. Construction -	heavy equipment	,				
l							
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<u> </u>							
ı	Focus group	☐ Emergency Manag				☑ Occupational S	Safety
		☐ Environmental Pro	tection	ement & C	versigh	t Radiation Prote	ection
_					_		
2.	is there a ne	cessary standard v	wnich applies to	this iss			YES NO
					. If	yes, continue; o	therwise skip to 6.
3.	Necessary s	tandard(s)					
	FR 1926.550				· · · - · ·	· · · · · · · · · · · · · · · · · · ·	
	FR 1926.600-60	2					
	FR 1926.250						
29 C	FR 1926.251						
							ĺ
4.	Are there any	aspects of these	necessary stan	dard(s) v	vhich	do not add value	? YES NO
					lf	yes, continue; c	therwise skip to 6.
5.	Description of	of non-value added	aspects of ne	cessary	stand	ard(s).	
							1
							Í
		of risk associated b Is assuming comp					¥YES □ NO
Pell	Timanoe you	.c assuming comp	app	noadie i		-	therwise skip to 12.
						n no continue, o	merwise skip to 12.
7	le there e ==	n roquirod externel	otondord whi-t	annila-	4a 1L	ia iaawa?	Elves Elve
7.	19 HIGIE & 110	n-required external	ətanıdanı WillCi	applies		is issue? yes, continue; ot	YES NO

8. External sufficient standard citation		
	•	
9. Is the level of risk associated with the issue(s) consis	tent with	
management performance goals assuming compliance with		☐ YES ☐ NO
(non-statutory) external standard?	If no continue; oth	erwise skip to 12
10. Is an internal standard required to attain a level of ri management performance goals?	sk consistent with	YES NO
management performance goals.		
11. Describe nature and status of internal sufficient star	ndard.	
		·
	. •	
		·
12. Describe how the levels of risk and cost are consiste		
Past adherance to the statutory requirements in #3 has resulted in level with management goals inlouding the use of industrial standards for indu		ce that are consistent
with management goals inicuoling the use of industrial standards for indu	ustriar issues.	
<ol><li>Pick the basic implementing assumption from the list.</li></ol>	☐ Major positive impact ☐ M	linor negative impact
	<ul><li>☐ Minor positive impact</li><li>☐ M</li><li>No net impact</li></ul>	lajor negative impaci
4. Describe the nature and status of implementation in		s
Experience has demonstrated that this program is both successful and	cost-effective.	
		•

		Issue origin ☑ Hazard analysis ☐ Identification Team
1.	Issue(s)	
030	. Construction -	ladder
ļ		
	Focus group	☐ Emergency Management ☐ Fire Protection ☑ Occupational Safety
	. осно досер	☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection
2.	Is there a no	ecessary standard which applies to this issue?
		If yes, continue; otherwise skip to 6.
3.	Necessary s	standard(s)
	CFR 1926.105	Tanaara(o)
	CFR 1926.1050-	1053
	CFR 1926.1060	
29 C	CFR 1926.603	
	CFR 1926.550	
ł.	CFR 1926.851	
	FR 1926.951 FR 1926.605	
l.	FR 1926.451	
	FR 1910.25-27	
	FR 1910.31	
	FR 1910.179	
29 C	FR 1910.333	
4	Ave there on	y concete of these personny standard(s) which do not odd value.
4.	Are there an	y aspects of these necessary standard(s) which do not add value?
		If yes, continue; otherwise skip to 6.
_	<b></b>	
5.	Description	of non-value added aspects of necessary standard(s).
_		
6.		of risk associated with the issue(s) consistent with management
pen	отнапсе доа	is assuming compliance with applicable necessary standards:
		If no continue; otherwise skip to 12.
7.	Is there a no	n-required external standard which applies to this issue?
		If yes, continue; otherwise skip to 10.

8. External sufficient standard citation	
9. Is the level of risk associated with the issue(s) consistent with	YES NO
management performance goals assuming compliance with the above	□ 1E3 □ NO
(non-statutory) external standard?	otherwise skip to 12
	. •
10. Is an internal standard required to attain a level of risk consistent with	
management performance goals?	☐ YES ☐ NO
11. Describe nature and status of internal sufficient standard.	
	· · · · · · · · · · · · · · · · · · ·
12. Describe how the levels of risk and cost are consistent with management	performance goals.
Past adherance to the statutory requirements in #3 has resulted in levels of ES&H and cost perfor	mance that are consistent
with management goals inlouding the use of industrial standards for industrial issues.	
13. Pick the basic implementing assumption from the list. Major positive impact	☐ Minor negative impact
✓ Minor positive impact  ✓ No net impact	☐ Major negative impact
Mo net impact	
14. Describe the nature and status of implementation including cost-effective	nece
Experience has demonstrated that this program is both successful and cost-effective.	11699.
Expendince has demonstrated that this program is both successful and cost-effective.	
	l

					Issue	origin 🔀	Hazard analys	sis 🔲 lo	lentification Team
1.	Issue(s)								
032	. Construction - r	materials handlinç	9						·
	Focus group	☐ Emergency M				)versight	☑ Occupation ☐ Radiation P		
2.	is there a ne	cessary standa	ard which a	applies to	this is		es, continue;	; otherv	☑ YES ☐ NO wise skip to 6.
3.	Necessary st	tandard(s)							
	DFR 1926.250 DFR 1926.602					**			
	:		-,-,	_					
4.	Are there any	aspects of th	nese necess	sary stanc	lard(s)				YES NO wise skip to 6.
5.	Description o	f non-value a	dded aspec	ts of nec	cessary	standar	d(s).		
							•		
	<u>~</u>					N.	<del></del>		
6. peri	is the level o formance goal	f risk associa s assuming c				necessai	y standards	?	▼YES NO NO No No No No No No No No No No No No No
7.	Is there a no	n-required exte	ernal standa	ard which	applies			otherw	☐ YES ☐ NO vise skip to 10.

. Is the level of risk associated with the issue(s) consistent	with	YES NO
anagement performance goals assuming compliance with the	above	<u></u>
non-statutory) external standard?	If no continue;	otherwise skip to 12
). Is an internal standard required to attain a level of risk c	onsistent with	TVEC TNO
anagement performance goals?		YES NO
Describe nature and status of internal sufficient standard	1	
Describe nature and status of internal sufficient standard	4.	
<ol><li>Describe how the levels of risk and cost are consistent vast adherance to the statutory requirements in #3 has resulted in levels of E</li></ol>		
th management goals inlouding the use of industrial standards for industria		iance that are consisten
B. Pick the basic implementing assumption from the list.□N	lajor positive impact	☑ Minor negative impac
	linor positive impact	☐ Minor negative impac ☐ Major negative impac
	fajor positive impact linor positive impact lo net impact	☐ Minor negative impac
	linor positive impact to net impact	_] Major negative impac
IL N 図 N 1. Describe the nature and status of implementation includ	ing cost-effectiver	_] Major negative impac
以下 区内 I. Describe the nature and status of implementation includ	ing cost-effectiver	_] Major negative impac
IL N 図 N 1. Describe the nature and status of implementation includ	ing cost-effectiver	_] Major negative impac
IL N 図 N 1. Describe the nature and status of implementation includ	ing cost-effectiver	_] Major negative impac
	ing cost-effectiver	_] Major negative impac

1. Issue(s)	issue origin 🛮 Hazard analysis 🗖 Identification Team
	- possibility of hitting utilities
Oolisti dellon	possibility of fitting dunties
	·
Focus group	☐ Emergency Management ☐ Fire Protection
. 0000 3.0mb	☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection
2 lo there e i	soccosomy otendard which applies to this issue
2. Is there a	necessary standard which applies to this issue?
	If yes, continue; otherwise skip to 6.
3. Necessary	standard(s)
29 CFR 1926.651(k	o)
4. Are there a	ny aspects of these necessary standard(s) which do not add value?
	If yes, continue; otherwise skip to 6.
5. Description	of non-value added aspects of necessary standard(s).
6 le the level	of rick accounted with the inque/s) consistent with many
6. Is the level performance go	of risk associated with the issue(s) consistent with management als assuming compliance with applicable necessary standards?
politici manoc go	and approache necessary standards:
•	If no continue; otherwise skip to 12.
7. Is there a n	on-required external standard which applies to this issue?
•	If yes, continue; otherwise skip to 10.

8. External sufficient standard citation	
<u> </u>	
9. Is the level of risk associated with the issue(s) consistent with	☐ YES ☐ NO
management performance goals assuming compliance with the above (non-statutory) external standard?	
ir no continue;	otherwise skip to 12.
10. Is an internal standard required to attain a level of risk consistent with management performance goals?	☐ YES ☐ NO
management performance goals:	
11. Describe nature and status of internal sufficient standard.	
	,
12. Describe how the levels of risk and cost are consistent with management	nerformance goals
Past adherance to the statutory requirement in #3 has resulted in levels of ES&H and cost perform	
with management goals inlouding the use of industrial standards for industrial issues.	
13. Pick the basic implementing assumption from the list. Major positive impact	☐ Minor negative impact
☐ Minor positive impact	☐ Major negative impact
No net impact	
14. Describe the nature and status of implementation including and of the	
14. Describe the nature and status of implementation including cost-effective. Experience has demonstrated that this program is both successful and cost-effective.	1ess.
Expendition has demonstrated that this program is both successful and cost-effective.	
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1.	Issue(s)			Issue	origin 🛛 Ha	zard analysis	☐ Identification Tear	n
034	. Construction -	scaffolding						٦
								-
ı	Focus group			☐ Fire Protection ☐ Management &		Occupational S Radiation Prote	Safety ection	
2.	Is there a ne	cessarv stan	dard which	applies to this	issue?		YES □ NO	_
						continue: of	ال ۱۳۵۵ المطالعة therwise skip to 6	-
								•
3.	Necessary s	tandard(s)			· · · · · · · · · · · · · · · · · · ·			_
29 C	FR 1926.451							
İ								
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	,							_
4.	Are there any	aspects of	these neces	sary standard(s)	which do no	ot add value	? PES NO	,
					lf yes,	continue; o	therwise skip to	5.
5.	Description of	of non-value	added asne	cts of necessar	v etandard/e\			
<u>.                                    </u>	- Docompaion o	1 11011 74140	udded doper	oto of necessar	y standard(s)			٦
					·			
6. perf	ls the level o ormance goal	f risk assoc s assuming	iated with th compliance	e issue(s) cons with applicable	istent with m necessary s	anagement tandards?	YES NO	]
	~		•		lf no	continue; ot	herwise skip to 1	2.
7.	Is there a no	n-required ex	ternal standa	ard which applie	es to this iss	sue?	YES NO	7
-				appin			herwise skip to 10	_

8. External sufficient standard citation	
9. Is the level of risk associated with the issue(s) consistent with	☐ YES ☐ NO
management performance goals assuming compliance with the above (non-statutory) external standard?	otherwise skip to 12
ii no commus,	outerwise only to 12
10. Is an internal standard required to attain a level of risk consistent with	YES NO
management performance goals?	,
11. Describe nature and status of internal sufficient standard.	
12. Describe how the levels of risk and cost are consistent with management   Past adherance to the statutory requirement in #3 has resulted in levels of ES&H and cost perform	
with management goals inlouding the use of industrial standards for industrial issues.	
13. Pick the basic implementing assumption from the list. ☐ Major positive impact ☐ Minor positive impact	☐ Minor negative impact
☑ No net impact	
14. Describe the nature and status of implementation including cost-effective.  Experience has demonstrated that this program is both successful and cost-effective.	ness.
Expenence has demonstrated that this program is both successful and cost-effective.	

1.	Issue(s)	Issue origin 🛮 Hazard analysis 🔲 Identification Team
	. Construction -	transportation
128	- Other nereann	el hazards - traffic hazards
'-'	. Jaioi poidoriii	TOTAL STREET STR
1	٠	
l		
F	ocus group	☐ Emergency Management ☐ Fire Protection ☐ Occupational Safety
		☐ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection
2.	is there a ne	ecessary standard which applies to this issue?
		E 120 E 100
		If yes, continue; otherwise skip to 6.
_		
3.	Necessary s	tandard(s)
29 C	FR 1926.600-60	1
	FR 1926.200-20	
Illino	is Compiled Sta	tutes (ICS) Chapter 625 (State vehicle code)
		•
		·
4.	Are there any	aspects of these necessary standard(s) which do not add value?
		If yes, continue; otherwise skip to 6.
		ii yes, continue, otherwise skip to 6.
_		
5.	Description of	of non-value added aspects of necessary standard(s).
		•
6.	is the level o	f risk associated with the issue(s) consistent with management
o. perf	ormance goal	s assuming compliance with applicable necessary standards?
P-11	godi	a documing compliance with applicable necessary standards:
		If no continue; otherwise skip to 12.
<b>7.</b>	is there a no	n-required external standard which applies to this issue?
'	aloio a ilo	n-required external standard which applies to this issue?

8. External sufficient standard citation	
9. Is the level of risk associated with the issue(s) consistent with	YES NO
management performance goals assuming compliance with the above (non-statutory) external standard?	
(non-statutory) external standard:	therwise skip to 12.
10. Is an internal standard required to attain a level of risk consistent with	·
management performance goals?	☐ YES ☐ NO
11. Describe nature and status of internal sufficient standard.	
11. Describe nature and status of internal sufficient standard.	1
40. Describe how the levels of rick and cost are consistent with management as	orformanaa gaala
12. Describe how the levels of risk and cost are consistent with management per Past adherance to the statutory requirements in #3 has resulted in levels of ES&H and cost performance.	
with management goals inlouding the use of industrial standards for industrial issues.	
13. Pick the basic implementing assumption from the list. Major positive impact	Minor negative impact
I Minor positive impact ∟	Major negative impact
<b>⊠</b> No net impact	
14. Describe the nature and status of implementation including cost-effectivene	ess.
Experience has demonstrated that this program is both successful and cost-effective.	

	10000(0)	ı	ssue origin	Hazard analysi	s Identification Team
1.	Issue(s)				
1030	6. Electricity - b	artery			
					,
Щ.					·
	Focus group	☐ Emergency Management ☐ Fire Prote	ection	☑ Occupational	Safety
		☐ Environmental Protection ☐ Management	nent & Oversig	ht Radiation Pro	otection
				÷	
2.	is there a n	ecessary standard which applies to t	this issue?		X YES NO
			11	f yes, continue;	otherwise skip to 6.
3.	Necessary :	<u> </u>			
29	CFR 1910.305(j)	(7) (explosion prevention)			
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l					
				·	
					}
					İ
4.	Are there an	y aspects of these necessary standa	rd(s) which	do not add valu	ue? ☐ YES 🗷 NO
		,,			otherwise skip to 6.
				, , , , , , , , , , , , , , , , , , , ,	omermee cap to o.
5.	Description	of non-value added aspects of nece	essarv stanc	lard(s).	
	•				
L			<del></del>		
_					
6.	is the level	of risk associated with the issue(s)	consistent v	vith management	YES NO
per	iormance goa	Is assuming compliance with applic		*	
				If no continue;	otherwise skip to 12.
7.	Is there a no	on-required external standard which a	applies to th	nis issue?	YES NO
			lf	yes, continue; d	otherwise skip to 10.

8. External sufficient standard citation	
	-
9. Is the level of risk associated with the issue(s) consistent with	YES NO
management performance goals assuming compliance with the above (non-statutory) external standard?	otherwise skip to 12
ii iio oonanac,	omerwise skip to 12
10. Is an internal standard required to attain a level of risk consistent with	TIVES TINO
management performance goals?	YES NO
11. Describe nature and status of internal sufficient standard.	
	-
12. Describe how the levels of risk and cost are consistent with management properties of the statutory requirement in #3 has resulted in levels of ES&H and cost performance.	
with management goals inlouding the use of industrial standards for industrial issues.	ance that are consistent
·	•
13. Pick the basic implementing assumption from the list. Major positive impact	☐ Minor negative impact
☐ Minor positive impact ☑ No net impact	■ Major negative impact
M No het impact	
14. Describe the nature and status of implementation including cost-effectiver	
Battery installations generally involve limited numbers of batteries and are in areas having more that	
so as to preclude any significant hazard. Hazards associated with battery installations are well kno have been handled effectively. Experience has demonstrated that this program is both successfu	

1.	Issue(s)			Is	ssue	origin	Hazard analys	is 🛛 Id	entification Team
		noced conductors	/ >50 volto						
	. Electricity - exp	posed conductors	1 >50 VUIS						
030	. Electricity - filg	n voltage							
	· · · · · · · · · · · · · · · · · · ·								
	Focus group	☐ Emergency M					Occupation		
		☐ Environmenta	al Protection	☐ Management	ent &	Oversigl	ht 🔲 Radiation Pi	otection	·
2.	le there a ne	cessary standa	ard which	annlies to tl	hie i	20119			MIVEC FINO
۷.	is there a ne	ocssury stande	ard Willon	applies to the	illo it				YES NO
						lf	yes, continue;	otherv	vise skip to 6.
3.	Necessary s	tandard(s)							
29 (	CFR 1910.147 (LC	OTO)							
	CFR 1910.332-33								1
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l									
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1									
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				_				_	
4.	Are there any	, aspects of the	nese neces	sary standa	rd(s)		do not add va		YES X NO
						i	f yes, continue	; other	wise skip to 6.
5.	Description of	of non-value a	dded asne	cts of nece	eearı	v stand	lard(s)		
	20031.ption (	raide d	aope		ui )	, stant			
	•								
6.	Is the level of	of risk associa	ted with th	ne issue(s) (	consi	istent v	vith managemer	nt	
-							sary standards		YES 🗷 NO
, ·		· · · · · · · · · · · · · · · · · · ·					-		vice okin to 40
							ii no continue;	omerv	vise skip to 12.
									•
7.	Is there a no	n-required exte	ernal stand	ard which a	polie	s to th	nis issue?		YES NO
					- l- l		voc continue	othorn	

8. External sufficient standard citation	
9. Is the level of risk associated with the issue(s) consistent with	☐ YES ☐ NO
management performance goals assuming compliance with the above	П 150 П 140
(non-statutory) external standard? If no continue; ot	herwise skip to 12
10. Is an internal standard required to attain a level of risk consistent with	YES NO
management performance goals?	
11. Describe nature and status of internal sufficient standard.	
Fermilab ES&H Manual Chapters 5040-5042, and 5044.	onvironment As
In general, OSHA electrical safety standards are not a good match for electrical hazards in a research such Fermilab has developed internal standards which appear as chapters in its ES&H Manual:	environment. As
5040 - Defines basic policies and responsibilities. TA provides practical guidance and interpretations	
5041 - Requirements for working on equipment that goes beyond OSHA. Includes LOTO and work on 5042 - Guidance for work on premises wiring including work permit for energized systems.	energized equipment.
5044 - Guidance for exposed conductors in accelerator enclosures.	
12. Describe how the levels of risk and cost are consistent with management per	
Employment of safety related work practices and provision of appropriate training will achieve a level of with management performance goals. Past adherance to the statutory requirements in #3 combined w	
electrical safety programs in #11 has resulted in levels of ES&H and cost performance that are consis	
goals including the use of industrial standards for industrial issues.	
13. Pick the basic implementing assumption from the list. Major positive impact	Minor negative impact
☐ Minor positive impact ☐ ☑ No net impact	Major negative impact
Ma No het impact	
14. Describe the nature and status of implementation including cost-effectivene	ss.
Implementation is enhanced by appropriate application of National Electrical Code requirements, reas	oned interpretations
and guidance as provided by the Electrical Safety Subcommittee of the LSC, and by Fermilab ES&H N	
related to electrical safety - Chapters 5040-5046, 5120 (LOTO). Experience has demonstrated that the successful and cost-effective.	ns program is both

	Issue ori	igin	🔀 Hazard analysis 🔀 l	dentification Team
1.	. Issue(s)			
	39. Electricity - high power			
	41. Electricity - high current conductors / <50 volts			ļ
	42. Electricity - stored energy / capacitors			Ī
JU43.	43. Electricity - stored energy / inductors			ļ
				Ī
				]
L				
F	Focus group		□ Occupational Safet	
	☐ Environmental Protection ☐ Management & Ove	ersigh	t Radiation Protection	<u> </u>
2.	Is there a necessary standard which applies to this issue	e?		¥ YES □ NO
•	•••		voe continue etc	
		IT	yes, continue; other	wise skip to 6.
3.	Necessary standard(s)			
	9 CFR 1910.147 (LOTO) 9 CFR 1910.332-333			
ا وع	7 OF IT 1910.002-000			
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4.	Are there any aspects of these necessary standard(s) wh	ich 4	do not add volue?	YES X NO
т.	The more any aspects of mese necessary standard(s) will		yes, continue; other	
		11	yes, commue; other	wise skip to 6.
_	Described and the second secon			
5.	Description of non-value added aspects of necessary st	tanda	ard(s).	
				İ
				į
				1
6.	Is the level of risk associated with the issue(s) consister	nt wi	ith management	
	erformance goals assuming compliance with applicable nec			YES NO
-			f no continue; other	vise skip to 12
		•		onp to 12.
<b>7.</b> i	is there a non-required external standard which applies to			YES NO
		14 .	rac continues others	cion akim to 40

8. External sufficient standard citation
9. Is the level of risk associated with the issue(s) consistent with
management performance goals assuming compliance with the above  (non-statutory) external standard?  If no continue: otherwise skin to 12
(non-statutory) external standard? If no continue; otherwise skip to 12.
10. Is an internal standard required to attain a level of risk consistent with   ☑ YES ☐ NO
management performance goals?
11. Describe nature and status of internal sufficient standard.
Fermilab ES&H Manual Chapters 5040-5042, 5044, and 5046.
In general, OSHA electrical safety standards are not a good match for electrical hazards in a research environment. As such Fermilab has developed internal standards which appear as chapters in its ES&H Manual:
5040 - Defines basic policies and responsibilities. TA provides practical guidance and interpretations of external standards.
5041 - Requirements for working on equipment that goes beyond OSHA. Includes LOTO and work on energized equipment.
5042 - Guidance for work on premises wiring including work permit for energized systems.
5044 - Guidance for exposed conductors in accelerator enclosures. 5046 - Guidance for low voltage high current power distribution systems.
3040 - Quidance for low voltage riight current power distribution systems.
12. Describe how the levels of risk and cost are consistent with management performance goals.  Employment of safety related work practices and provision of appropriate training will achieve a level of risk commensurate
with management performance goals. Past adherance to the statutory requirements in #3 combined with Fermilab's
electrical safety programs in #11 has resulted in levels of ES&H and cost performance that are consistent with management
goals including the use of industrial standards for industrial issues.
·
13. Pick the basic implementing assumption from the list.   Major positive impact Minor negative impact Minor negative impact Minor negative impact
✓ No net impact
14. Describe the nature and status of implementation including cost-effectiveness.
Implementation is enhanced by appropriate application of National Electrical Code requirements, reasoned interpretations
and guidance as provided by the Electrical Safety Subcommittee of the LSC, and by Fermilab ES&H Manual chapters
related to electrical safety - Chapters 5040-5046, 5120 (LOTO). Experience has demonstrated that this program is both successful and cost-effective.
מונט בספונו מונט ביסורסטוויס.
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1.	Issue(s)			Issue	origin	☑ Hazard analy	sis 🔲 Ident	ification Team
040	. Electricity - lig	htning						
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								İ
١	Focus group			Fire Protection Management &	Oversigl	☐ Occupation		
								······································
2.	Is there a no	ecessary sta	ndard which a	pplies to this is	ssue?		×	YES NO
					lf	yes, continue	; otherwise	skip to 6.
3.	Necessary s							
	AC - Fire Protect IAC - Fire Preve		h.,					
			ıy azardous [classi	fiedl location)				
29 (	CFR 1910.308(e)	)(3)(i){b} (Sepe	ration between le	ead-in and lightning	protection	on conductors)		
			source for flamm					
			on source for flan urce for flammabl					İ
29 (	JI N 1920.132(I)	(o) (ignition so	arce for narrimable	e vapois)				
l								
								•
	- ·							
4	Are there on	v concete of	those pecoes	ory standard(s)	ما ما ماسد	do not odd	a F	LVEC MINO
4.	Are there an	y aspects of	mese necess	sary standard(s)		do not add va f yes, continue		YES NO
			•		•	i yes, commu	s, Otherwis	e skip to o.
5.	Description	of non-value	added aspec	ts of necessary	stand	lard(s).		
<u> </u>					-			
6	le the level	of riek sees	risted with th	e issue(s) consi	etent "	vith manageme	nt	
6. peri				e issue(s) consi with applicable				YES 🛮 NO
				In In an a sum of		If no continue		skip to 12
							,	
7	is there a no	on-required c	xternal stands	ırd which applie	s to th	uis issue?		YES NO
				applie		yes, continue;		

BOCA National Building Code BOCA Fire Prevention Code National Fire Protection Association National Fire Codes (NFPA Standards Lis UL Listing	st)	
9. Is the level of risk associated with the issue(s) consistent management performance goals assuming compliance with the (non-statutory) external standard?		▼ YES NO NO No 12.
10. Is an internal standard required to attain a level of risk comanagement performance goals?	onsistent with	YES NO
11. Describe nature and status of internal sufficient standard	l.	
12. Describe how the levels of risk and cost are consistent with management performance goals because in selected for the standard residential/commercial/industrial electrical equipment found that statutory requirements were insufficient and that the building code were necessary to achieve adequate protection.	nunicipal and industrial stan nt. Insurers and municipali	dards have been ies have long
	lajor positive impact	nor negative impact jor negative impact
14. Describe the nature and status of implementation included The overall program exists and the internal standard has been implemented. A will require changes to construction and contract documents.	<del>-</del>	nal Building Code

	leeuo origin	₩ Hozard analysis □	Idaasii — T
1. Issue(s)	issue origin	☑ Hazard analysis  ☐	identification ream
044. Env - air emissions / nonrad			
**			
Focus group	ire Protection	□ Occupational Safe	
☑ Environmental Protection ☐ N		<ul><li>☐ Occupational Safe</li><li>ht ☐ Radiation Protection</li></ul>	n
2. Is there a necessary standard which appli	es to this issue?		X YES INO
	If	yes, continue; other	rwise skip to 6.
3. Necessary standard(s)			
Clean Air Act Amendments 1990, 42 USC 7401 et seq.			
40 CFR 50			
40 CFR 52 Subpart O			
40 CFR 58 40 CFR 60-61			
40 CFR 63			İ
40 CFR 80 40 CFR 82			
40 CFR 88 Subpart C			
40 CFR 264-265			·
35 IAC Subtitle B and permits pursuant			
·			
4. Are there any aspects of these necessary	standard(s) which	do not add value?	YES NO
•		f yes, continue; othe	
5. Description of non-value added aspects of	of necessary stand	lard(s).	
		•	
			,
6. Is the level of risk associated with the is	sue(s) consistent v	vith management	
performance goals assuming compliance with			X YES NO
		If no continue; other	wise skip to 12.
7. Is there a non-required external standard	· ·		YES NO
	lf	yes, continue; other	wise skip to 10.

8. External sufficient standard citation		
9. Is the level of risk associated with the issue(s) consistent		YES NO
management performance goals assuming compliance with the (non-statutory) external standard?		
(Holl-Statutory) external standard:	If no continue;	otherwise skip to 12.
10. Is an internal standard required to attain a level of risk of	consistent with	
management performance goals?		YES NO
11. Describe nature and status of internal sufficient standar	d	
17. Describe flatare and status of internal carrietoric standar		
	·	
12. Describe how the levels of risk and cost are consistent	with management :	nerformance goals
Continuation of the current program will provide an appropriate level of prote	ction at an acceptable	cost. The level of risk is
consistent with management performance goals because management experiessues. This is an industrial issue and the solution chosen is an industrial so		olutions for industrial
	nution.	
13. Pick the basic implementing assumption from the list.	Major positive impact	Minor negative impact
·	Minor positive impact No net impact	☐ Major negative impact
	To not impact	
14. Describe the nature and status of implementation inclu-		
Continue current program. Implementation of Illinois' Clean Air Act Permit programs by charge payering permit by the and of 1995	ogram may require the	preparation of a federally
enforceable state operating permit by the end of 1995.		
		1

						Issue d	origin 🔀 H	azard analysi	is 🔲 lde	entification Tea	ım
1.	Issue								and the second		
04	5. Env -	air emiss	sions / rad						7		
L						····			- ; :-		
	Focus	group	☐ Emergenc	y Management	☐ Fire Pro	tection		Occupationa	I Safety		$\neg$
		•		ntal Protection							
2.	is the	ere a ne	ecessary stai	ndard which	applies to	this iss	sue?			YES N	ōΠ
							if ves.	continue:	otherw	ise skip to	
							,,	,	• • • • • • • • • • • • • • • • • • • •	ice only to	٥.
3.	Nece	ssary s	tandard(s)								
Cle	an Air A	ct Amend	ments 1990, 4	2 USC 7401 et	seq.			<del></del>			$\neg$
40	CFR 61	Subpart H	l		•						
35	IAC Sub	title B and	d permits pursu	ıant							
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4.	Are t	here any	y aspects of	these neces	ssary stand	dard(s) v	vhich do r	ot add val	ue?	YES X N	<u>ा</u>
							If yes	, continue;	otherv	vise skip to	6.
5.	Desci	ription o	of non-value	added aspe	ects of ne	cessary	standard(s	s).			
											$\neg$
											- 1
											-
1											-
	•										
				<del></del>							_
6.			of risk assoc							X YES ☐ NO	77
pe	rformar	ice goa	ls assuming	compliance	with appl	icable r	-		'		
							If no	continue;	otherw	ise skip to	12.
7.	is the	re a no	n-required e	xternal stand	dard which	applies	to this is	sue?		YES NO	57
			•			••			otherwi	se skip to	

3. External sufficient standard citation			
			<del></del>
. Is the level of risk associated with the issue(s) consistent with			YES NO
nanagement performance goals assuming compliance with the abornon-statutory) external standard?		<b>-</b>	
ion-statutory) external standard:	no continue;	otherwise	skip to 1
0. Is an internal standard required to attain a level of risk consi	stent with		
nanagement performance goals?			YES NO
Describe nature and status of internal sufficient standard.			
Describe nature and status of internal sufficient standard.		***	
		•	
2. Describe how the levels of risk and cost are consistent with			ice goals.
ontinuation of the current program will provide an appropriate level of protection a	ii an acceptable	cost.	
	·		
3. Pick the basic implementing assumption from the list. Major	positive impact	☐ Minor n	egative impa
I i Minor ☑ No net	positive impact	⊔ Major n	egative impa
	puot		
1. Describe the nature and status of implementation including	cost-effective	ness.	
ne requirements identified in #3 have proven to be both successful and cost-effe	ctive.		

				Issue	origin	<b>⊠</b> Ha	zard analysi	s Flider	ntification	Team
1,	Issue(s)				<u>-</u>	<u> </u>	_ara anaiyo	<u>- Пис</u>	imoanon	- caiii
046	. Env - cultural	resources								
ı	Focus group	<ul><li>☐ Emergency Man</li><li>☑ Environmental F</li></ul>			Oversia		Occupationa			
		Z Zilviloimiorkai i	TOTOGRAFIE	I Management &	Oversig		iadiation i i	Jection		
2.	Is there a n	ecessary standard	l which app	olies to this is	ssue?			ſ	YES [	ON
					lf	yes,	continue;	otherwi	se skip	to 6.
2	Necessary :	standard(a)								
3. Nati		eservation Act of 196	6 [amended]					·	<del> </del>	
		Historic Preservation								
		ources Protection Ac								
	ve American Gr :FR 65	aves Protection and I	Repatriation A	Act of 1990						
	FR 78-79									
	FR 800									
43 C	FR7									
										ł
										I
										l
						,				<del></del>
4.	Are there an	y aspects of thes	se necessar	y standard(s)	which	do no	ot add vale	ue?	☐ YES I	X NO
					ı	f yes,	continue;	otherwi		
				_						
5.	Description	of non-value add	ed aspects	of necessary	, stand	lard(s)	•			
				•						l
_				•						
6. narf		of risk associated Is assuming com							YES [	NO
hell	ormance 908	is assummy con	ipiialice Wi	m applicable	neces:			_		
						11 110	continue;	Julerwis	эс экір	10 12,
7	le there a no	on-required extern	al etandard	l which comin	o to 41	ala las			TVE0 =	7.110
<i>′</i> .	13 HICIE A 110	ni-required extern	ai stalluafu	і мінсіі аррпе			continue;	ا otherwis	YES [	

External sufficient standar	ru citation		
	•		
•			
And the second s			
Is the level of risk associa			YES N
nagement performance goal		ance with the above	
n-statutory) external stand	dard?	If no continu	ue; otherwise skip to
			, •
Is an internal standard re	quired to attain a	evel of risk consistent with	
nagement performance goa	ls?		☐ YES ☐ N
	4 4		
Describe nature and stat	us of internal suffi	cient standard.	
			N.
			•
Describe how the levels of	of risk and cost ar	e consistent with manageme	nt performance goals
		ite level of protection at an accepta	
Pick the basic implementi	ng assumption from	n the list. Major positive impa	act
			act 🔲 Major negative imp
·		No net impact     ■	
		ntation including cost-effect	iveness.
requirements identified in #3 hav	e proven to be both su	ccessful and cost-effective.	
•			
	•		

,		Issue origin Decard analysis	Identification Team
1.	Issue(s)	*	
047	. Env - asbesto	5	
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		D. C	
İ	Focus group	☐ Emergency Management ☐ Fire Protection ☐ Occupational Safe ☐ Environmental Protection ☐ Management & Oversight ☐ Radiation, Protection	
		Environmental Protection   Management & Oversight   Tradiation, Total	<u></u>
2.	Is there a ne	ecessary standard which applies to this issue?	X YES NO
		If yes, continue; othe	rwise skip to 6.
3.	Necessary s	tandard(s)	
29 C	FR 1910.1001		
29 C	CFR 1926.58		
	A, 15 USC 2601		
	CFR 61 Subpart N		1
40 C	CFR 763		i
i			ĺ
			:
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4.	Are there an	y aspects of these necessary standard(s) which do not add value?	YES 🔀 NO
		If yes, continue; oth	erwise skip to 6.
5.	Description	of non-value added aspects of necessary standard(s).	
1			
1			
[			ļ
L			
6.	is the level	of risk associated with the issue(s) consistent with management	X YES NO
per	iormance goa	als assuming compliance with applicable necessary standards?	
		If no continue; other	erwise skip to 12.
7.	Is there a no	on-required external standard which applies to this issue?	YES NO
		If yes, continue; othe	

	ance goals assuming	e issue(s) consistent with compliance with the above If no continue; o	☐ YES ☐ No
). Is an internal s anagement perform		ain a level of risk consistent with	YES N
. Describe nature	e and status of interna	al sufficient standard.	
Dosoriba how th	he levels of rick and o	post are consistent with management ne	rformance goals
st adherance to the sta	atutory requirements in #3 h	cost are consistent with management penas resulted in levels of ES&H and cost performated all standards for industrial issues.	
st adherance to the sta	atutory requirements in #3 h	nas resulted in levels of ES&H and cost performa	
st adherance to the sta	atutory requirements in #3 h	nas resulted in levels of ES&H and cost performa	
st adherance to the sta	atutory requirements in #3 h	nas resulted in levels of ES&H and cost performa	
st adherance to the sta	atutory requirements in #3 h	nas resulted in levels of ES&H and cost performa	
st adherance to the sta	atutory requirements in #3 h	nas resulted in levels of ES&H and cost performa	
st adherance to the sta	atutory requirements in #3 h	nas resulted in levels of ES&H and cost performa	
st adherance to the sta h management goals i	atutory requirements in #3 hinlouding the use of industria	nas resulted in levels of ES&H and cost performa	nce that are consist
st adherance to the sta h management goals i	atutory requirements in #3 h inlouding the use of industria	nas resulted in levels of ES&H and cost performa al standards for industrial issues.  on from the list. □ Major positive impact □ Minor positive impact □ Mo net impact	nce that are consist
st adherance to the state in management goals in the management goals in the management goals in the management goals in the management goals.  Describe the management goals in the management goals in the management goals.	atutory requirements in #3 h inlouding the use of industria implementing assumption ature and status of in	on from the list. Major positive impact Minor positive impact Minor positive impact No net impact No net impact	Minor negative imp

If yes, continue; otherwise skip to 10.

#### FERMILAB IDENTIFICATION TEAM DOCUMENTATION

	Issue	origin		s Identification Team
1. Issue(s)				
048. Env - drinking water quality				
Focus group Emergency Management	7 Eiro Protection		□ Occupational	Cofoty
☑ Environmental Protection □		Oversigl	☐ Occupational ht ☐ Radiation Pro	
2. Is there a necessary standard which ap	plies to this is	sue?		YES NO
		If	yes, continue;	otherwise skip to 6.
				•
3. Necessary standard(s)				
SDWA, 42 USC 300f et seq. 40 CFR 141-142				
40 CFR 141-142 40 CFR 144				
40 CFR 146				
40 CFR 147 Subpart O	111 1/0			
Illinois Ground Water Protection Act, IRS 1989 Chapte 35 IAC Subtitle F Chapter I	er 111 1/2			
77 IAC 890				
77 IAC 900				
77 IAC 920	•			
77 IAC 925	nnky Ordinanaa OH	innna na	O Ch. 24	
DuPage County Health Department Private Water Sup Kane County Ordinance 91-101 Water Well Code	pply Ordinance On	10002-90	J CII. 34	
				ł
4. Are there any aspects of these necessa	ry standard(s)			
			i yes, continue;	otherwise skip to 6.
5. Description of non-value added aspects	s of necessary	stand	lard(s).	
	<u>-</u>			
•				
	•			
		•		
	,			
6. Is the level of risk associated with the	issue(s) consi	stent w	vith management	
performance goals assuming compliance w				YES NO
- · ·				otherwise skip to 12.
			,	•

7. Is there a non-required external standard which applies to this issue?

8. External sufficient standard citation	
Recommended Standards for Water Works, Great Lakes Upper Mississippi R. Bd. of State Public Health & Environment	ntal
Managers (1992) Handbook for Sampling & Sample Preservation of Water and Wastewater, EPA-600/4-82-029	
9. Is the level of risk associated with the issue(s) consistent with 文字 YES 「	100
9. Is the level of risk associated with the issue(s) consistent with MYES [MYES [	1 NO
(non-statutory) external standard? If no continue; otherwise skip	to 12.
10. Is an internal standard required to attain a level of risk consistent with	I NO I
management performance goals?	
11. Describe nature and status of internal sufficient standard.	
12. Describe how the levels of risk and cost are consistent with management performance goa	ale.
12. Describe how the levels of risk and cost are consistent with management performance goal Continuation of the current program will provide an appropriate level of protection at an acceptable cost. Some change	
the jurisdiction within which the Laboratory falls will be implemented in the near future. The level of risk is consistent	with
management performance goals because management expects to use industrial solutions for industrial issues. This is industrial issue and the solution chosen is an industrial solution. The additional standards indicated in #8, above, is	s an
necessary as a reference for industry-wide practice in this area. It contains no "requirements" other than adherence to	。
standard practices.	İ
	, <del></del>
13. Pick the basic implementing assumption from the list. Major positive impact Minor negative impact Major negative impact Major negative impact Major negative	mpact
☐ No net impact	mpaot
14. Describe the nature and status of implementation including cost-effectiveness.	
Essentially continue the current program, but with revision and upgrading. We assume jurisdiction by IDPH in the futurather than IEPA. The effect is to remove some requirements, but add responsibility for analysis. Implementation of the	
program will include the utilization of adequate sampling and analytical methods as found in relevant documents.	_
	-

If yes, continue; otherwise skip to 10.

4	loou	s/a\	Issue origin ☑ Hazard analysis ☐ Ide	ntification Team
1.	Issu			
049	). Env -	endang	ered species	
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<u> </u>				
	Focus	group	☐ Emergency Management ☐ Fire Protection ☐ Occupational Safety	
	locus	group	☑ Environmental Protection ☐ Management & Oversight ☐ Radiation Protection	
			Environmental indication in Management & Oversight in Madiation indication	
2.	Is the	ere a no	ecessary standard which applies to this issue?	YES NO
			If yes, continue; otherwi	
			n yes, continue; otherwi	se skip to 6.
_				
3.	Nece	ssary	standard(s)	
End	langere	d Specie	s Act 16 USC 1531 et seq.	
50 (	CFR 17	•		
Illin	ois End	angered	Species Protection Act, IRS 1991, Ch. 8, par. 331 et seq.	
17	AC 525	and perr	mit pursuant	
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4.	Are t	here an	y aspects of these necessary standard(s) which do not add value?	YES NO
			If yes, continue; otherw	
			ii yoo, oonanaa, onan	noc only to o.
5.	Desc	ription	of non-value added aspects of necessary standard(s).	
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<b>i</b>				
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6.			of risk associated with the issue(s) consistent with management	MVEC INO
per	forma	nce goa	als assuming compliance with applicable necessary standards?	X YES NO
		=	If no continue; otherwi	se skip to 12
			ii iio cominadi, canoni	
7	lo the		on-required external standard which applies to this issue?	T VEC MINO